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<b>Title:</b> Waveform and frame structure for fixed wireless loop synchronous CDMA communications system			
<b>Application Number:</b>	98812005	<b>Application Date:</b>	1998.11.16
<b>Publication Number:</b>	1281561	<b>Publication Date:</b>	2001.01.24
<b>Approval Pub. Date:</b>		<b>Granted Pub. Date:</b>	
<b>International Classifi-cation:</b>	G06F 11/10;H04B 15/00;H04J3/24;H04K1/00;H04L 1/02		
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**Abstract**

Disclosed is a method for transmitting information in a CDMA communication system including (a) multiplexing control information into a data stream; (b) encoding (54) the data stream to form a stream of encoded I/Q symbol pairs; (c) inserting synchronization information into the stream of encoded I/Q symbols pairs; and (d) spreading the encoded pairs and the inserted synchronization information using a same pseudonoise (pn) spreading code (14e) prior to transmission. The preferred frame structure includes an unencoded synchronization field followed by a plurality of multi-byte fields (80A) are separated by a control message field (80B). Individual ones of the plurality of data fields (80A) contain a single byte of a multi-byte control message frame (82).

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